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Self-association of **cyclodextrins** and **cyclodextrin** complexes

T Loftsson, M Másson, ME ... - Journal of ..., 2004 - interscience.wiley.com  
 ... 107 Reykjavik, Iceland. Telephone: 354-525-4464; Fax: 354-525-4071. Keywords.  
**cyclodextrin** • self-association • complexation • **non-inclusion** • aggregates •  
 phase-solubility • solubilization. Abstract. **Cyclodextrins** are useful ...

[Cited by 76](#) - [Related articles](#) - [BI Direct](#) - [All 4 versions](#)... on inclusion and **non-inclusion** phenomena between  $\beta$ -**cyclodextrin** and new anti- ...

ME Amato, KB Lipkowitz, GM Lombardo, GC ... - Journal of the Chemical ..., 1996 - rsc.org  
 The formation of supramolecular complexes of -CD with new generation anti-Alzheimer's agents  
 of the 1,2,3,4-tetrahydro-9-aminoacridine family (tacrine hydrochloride, 1, velnacrine  
 maleate, 2 and suronacrine maleate, 3), has been studied using molecular dynamics ...

[Cited by 13](#) - [Related articles](#) - [BI Direct](#)**Cyclodextrins** and their pharmaceutical applications[uniroma1.it](#) (PDF)

T Loftsson, D Duchêne - International journal of pharmaceutics, 2007 - Elsevier  
 ... period, 1970 to present 2.3.1. Production of **cyclodextrins** 2.3.2. **Cyclodextrin** derivatives 2.3.3.  
 Industrial applications of **cyclodextrins** 2.3.4. Inclusion and **non-inclusion** complexes 2.3.5.  
 Methods to enhance the complexation efficiency 2.3.6. **Cyclodextrin** aggregates 2.3.7. Drug ...

[Cited by 113](#) - [Related articles](#) - [All 5 versions](#)Evaluation of **cyclodextrin** solubilization of drugs

T Loftsson, D Hreinsdóttir, M Másson - International journal of ..., 2005 - Elsevier  
 ... However, **cyclodextrins** (the hosts) are also known to form **non-inclusion** complexes (Loftsson  
 et al., 2002 and Loftsson et al., 2004b). Most lipophilic compounds (the guests) form apparent  
 1:1 guest/host complex although apparent higher order complexes are not uncommon ...

[Cited by 79](#) - [Related articles](#) - [All 4 versions](#)(PDF) Non-chromatographic analytical uses of **cyclodextrins**[rsc.org](#) (PDF)

L Szenie, J Szejtli - The Analyst, 1998 - rsc.org  
 ... From a mechanistic standpoint, the selectivity of the interaction seems to involve partially a **non-**

**inclusion** process, because of the high ... detectors and indicators Numerous papers and patents have been dedicated to the use of **cyclodextrins** and **cyclodextrin** inclusion complexes ...

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### The effects of organic salts on the **cyclodextrin** solubilization of drugs

T Loftsson, K Matthiasson, M Másson - International journal of ..., 2003 - Elsevier

... For example, Gabelica et al. have shown that  $\alpha$ -**cyclodextrin** ( $\alpha$ CD) forms both inclusion and **non-inclusion** complexes with dicarboxylic acids and that the two types of complexes coexist in aqueous solutions ([Gabelica et al]). ...

[Cited by 21](#) - [Related articles](#) - [All 4 versions](#)

### Influence of response factors on determining equilibrium association constants of ...

V Gabelica, N Galić, F Rosu, C ... - Journal of Mass ..., 2003 - interscience.wiley.com

... **cyclodextrin**. This may be due to the fact that **cyclodextrin** is neutral in solution, whereas the complex is charged, but it can also stem from the fact that a significant proportion of the complex is in a **non-inclusion** geometry. The ...

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### **Cyclodextrins** as pharmaceutical solubilizers

[uniroma1.it](#) (PDF)

ME Brewster, T Loftsson - Advanced drug delivery reviews, 2007 - Elsevier

... Other solubilizing attribute may include the ability to form **non-inclusion** based complexes, the formation of aggregates and related domains and the ability of **cyclodextrins** to form and stabilize supersaturated drug solutions. ...

[Cited by 99](#) - [Related articles](#) - [All 7 versions](#)

### **Cyclodextrin** solubilization of the antibacterial agents triclosan and triclocarban: ...

MS Duan, N Zhao, JB Össurardóttir, T ... - International journal of ..., 2005 - Elsevier

... the **cyclodextrin** solubilization of drugs. It is thought that these additives enhance the **cyclodextrin** complexation of drugs by forming **non-inclusion** complexes with **cyclodextrins** and their complexes. For example, it has been shown ...

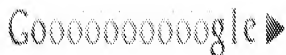
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### Self-association and **cyclodextrin** solubilization of drugs

T Loftsson, A Magnúsdóttir, M Másson, ... - Journal of ..., 2002 - interscience.wiley.com

... studies. Furthermore, the results indicate that drug/**cyclodextrin** complexes can self-associate to form water-soluble aggregates, which then can further solubilize the drug through **non-inclusion** complexation. © 2002 Wiley-Liss, Inc. ...

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